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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/715,390

11/19/2003

Shigeo Tanaka

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06/28/2007

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EXAMINER

BERHANE, ADOLF D

ART UNIT

PAPER NUMBER

2838

MAIL DATE

DELIVERY MODE

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/715,390

Applicant(s)

TANAKA ET AL.

Examiner

Adolf Berhane

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 30 April 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 12-15 is/are rejected.
- 7) ☒ Claim(s) 5-11 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4, 12 and 13 rejected under 35 U.S.C. 102(b) as being anticipated by Seiji Kono et al. (JP02000308257A).

Seiji Kono et al. disclose a power supply in Figs. 1 and 2. The output of and oscillation circuit, configured with a transistor TR1, resistors R1, R2, a capacitor C4 and a transformer TR, is smoothed with a diode D1 to provide a DC voltage from an output terminal Vout. In a waiting condition, a current detection circuit 22 detects the voltage drop of the resistor R4, sets a latching circuit 21, makes the transistor TR2 conductive and stops oscillation to stop an output from the output terminal Vout. In this case, when a drive signal turns on a switch SW, a Zener diode ZD2 is turned on, a current flows into a photocoupler 4, the latching circuit 21 is reset, the transistor TR2 is turned off, the oscillation circuit starts the oscillation, and thereby a DC voltage can be obtained from the output terminal Vout.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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4. Claims 14 and 15 are rejected under 35 U.S.C. 102(a) as being anticipated by Bruning (6,339,314).

Bruning disclose a battery charger with low standby power dissipation in Figs. 1 and 2. Stopping a power supply to the transformer (30) when an output side of the current-to-voltage conversion circuit (10) in a no-load state (see col. 1, lines 62-66) and starting a power supply to the transformer when an external voltage is applied to the output side of the current-to-voltage conversion circuit (col. 1, line 67 to col. 2, line 2) wherein the external voltage is applied to the output side of the current-to-voltage conversion circuit in a deactivated state, by controlling ON and OFF states of a switching circuit (22) within an electronic apparatus to which the current-to-voltage conversion circuit is coupled an input section to input an input power (12, 14) a transformer to convert the input power into an output power (16, 18) an output section to output the output power, sensing circuit (104), threshold detector (112) and timing circuit (114).

***Allowable Subject Matter***

5. Claims 5-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

6. Applicant's arguments filed 4/30/07 have been fully considered but they are not persuasive. In response to Applicant argument with respect to claim 14 and 15 recited that a no-load or standby state is detected by detecting a state of the output side of the

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current to voltage conversion circuit and further try to claim by example that in accordance with the present invention the no-load or standby state is detected by detecting the current in the secondary side circuit of the transformer (i.e., the output side), applicant misinterprets the principle that claims are interpreted in the light of the specification. Although these limitation "the detecting the current in the secondary side circuit of the transformer" are found as examples or embodiments in the specification, they were not claimed explicitly. Nor were the words that are used in the claims defined in the specification to require these limitations. A reading of the specification provides no evidence to indicate that these limitations must be imported into the claims to give meaning to disputed terms. *Constant V. Advanced Micro-Devices Inc.*, 7 USPQ2d 1064. Bruning disclose or suggest a starting a power supply to the transformer when an external voltage is applied to the output side of the current-to-voltage conversion circuit, see col. 1, line 67 to col. 2, line 2, a threshold detector is coupled to the triggerable electronic switch trigger the triggerable electronic switch when the voltage of the threshold detector reaches a predetermined value (i.e. an external voltage is applied to the conversion circuit). Applicant further argues that Bruning does not disclose or suggest stopping a supply of power to the transformer when the output side of the current-to-voltage conversion circuit is the no load or light load state. Applicant's attention is directed to col. 1, lines 62-67 which state that the when there is no load the power supply is shut off (stopped).

7. Applicant's arguments with respect to claims 1-4, 12, and 13 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on 571-272-1989. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "Adolf Berhane", is written over the printed name.

Adolf Berhane  
Primary Examiner  
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